Australian Bureau of Statistics

6202.0 - Labour Force, Australia, Feb 2013

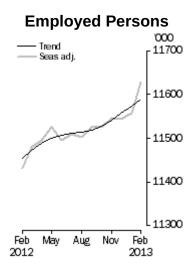
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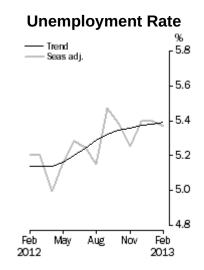
Summary

Main Features

FEBRUARY KEY FIGURES

	Jan 2013	Feb 2013	Jan 13 to Feb 13	Feb 12 to Feb 13
Trend				
Employed persons ('000)	11 572.8	11 588.7	15.9	1.2%
Unemployed persons ('000)	658.2	660.0	1.8	6.4%
Unemployment rate (%)	5.4	5.4	0.0pts	0.2pts
Participation rate (%)	65.1	65.1	0.0pts	-0.1pts
Seasonally Adjusted /			•	·
Employed persons ('000)	11 556.8	11 628.3	71.5	1.7%
Unemployed persons ('000)	659.6	660.0	0.4	5.1%
Unemployment rate (%)	5.4	5.4	0.0pts	0.2pts
Participation rate (%)	65.0	65.3	0.3pts	0.1pts





FEBRUARY KEY POINTS

TREND ESTIMATES (MONTHLY CHANGE)

- Employment increased to 11,588,700.
- Unemployment increased to 660,000.
- Unemployment rate remained steady at 5.4%.

- Participation rate steady at 65.1% from a revised January 2013 estimate.
- Aggregate monthly hours worked increased to 1,627.3 million hours.

SEASONALLY ADJUSTED ESTIMATES (MONTHLY CHANGE)

- Employment increased 71,500 (0.6%) to 11,628,300. Full-time employment increased 17,800 to 8,117,400 and part-time employment increased 53,700 to 3,510,800.
- Unemployment increased 400 (0.1%) to 660,000. The number of persons looking for full-time work increased 200 to 470,300 and the number of persons looking for part-time work increased 200 to 189,700.
- The unemployment rate remained steady at 5.4%.
- The participation rate increased 0.3 pts to 65.3%.
- Aggregate monthly hours worked increased 11.3 million hours to 1,632.8 million hours.

LABOUR UNDERUTILISATION (QUARTERLY CHANGE)

- Trend estimates: The labour force underutilisation rate remained steady at 12.5%.
- Seasonally adjusted estimates: The labour force underutilisation rate remained steady at 12.5 %. The male labour force underutilisation rate increased 0.1 pts to 10.8%. The female labour force underutilisation rate decreased 0.1 pts to 14.6%.

NOTES

FORTHCOMING ISSUES

ISSUE	Release Date
March 2013	11 April 2013
April 2013	9 May 2013
May 2013	13 June 2013
June 2013	11 July 2013
July 2013	8 August 2013
August 2013	12 September 2013

ADDITIONAL INFORMATION - FEATURE ARTICLE ON JOBS

A feature article estimating the number of jobs in the economy and comparing it with the number of people employed will be published on Thursday 21 March attached to this catalogue number and issue. This article will also be available from **Labour Force**, **Australia**, **Detailed - Electronic Delivery**, **February 2013** (cat. no. 6291.0.55.001).

ROUNDING

Estimates of monthly changes shown on the front cover have been calculated using unrounded estimates, and may be different from, but are more accurate than, movements obtained from the rounded estimates. The graphs on the front cover also depict unrounded estimates.

SAMPLING ERROR

The estimates in this publication are based on a sample survey. Published estimates and the movements derived from them are subject to sampling variability. Standard errors give a measure of sampling variability (see pages 35 and 36). The interval bounded by two standard errors is the 95% confidence interval, which provides a way of looking at the variability inherent in estimates. There is a 95% chance that the true value of the estimate lies within that interval.

MOVEMENTS IN SEASONALLY ADJUSTED SERIES BETWEEN JANUARY 2013 AND FEBRUARY 2013

	Monthly change	95% Confi		
Total Employment	71 500	16 500	to	126 500
Total Unemployment	400	-34 200	to	35 000
Unemployment rate	0.0 pts	-0.2 pts	to	0.2 pts
Participation rate	0.3pts	-0.1 pts	to	0.7 pts

INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070, email client.services@abs.gov.au or Labour Force on Canberra (02) 6252 6525, email labourforce@abs.gov.au\>.

What's New in Labour Force

WHAT'S NEW IN LABOUR FORCE

NEW LABOUR FORCE SURVEY SAMPLE DESIGN

The current Labour Force Survey sample is selected using information collected in the 2006 Census of Population and Housing. Following the release of 2011 Census based Estimated Resident Population (ERP), more up to date information is available for use in the selection of the Labour Force Survey sample. The ABS had previously advised in the July 2012 issue that the new Labour Force Survey sample would be phased in over four months from April 2013. The phase in strategy has been updated to commence from May 2013. An information paper (cat. no. 6269.0) will be released prior to the release of the May 2013 estimates in June 2013 with detailed information on the sample design.

ELECTRONIC COLLECTION OF LABOUR FORCE DATA

The ABS has been undertaking a trial of on-line electronic data collection of labour force data from households since December 2012. The trial is being conducted on one rotation group (i.e. one-eighth of the survey sample) and respondents were offered the option of

completing the survey on-line instead of a face-to-face or telephone interview. The uptake in February was 20.9% of the rotation group (2.6% of the total labour force survey sample).

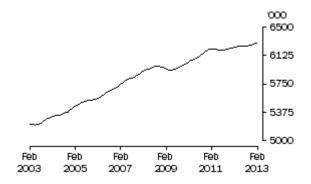
The trial will continue prior to a decision on rolling out progressively to the full Labour Force Survey sample.

Employed Persons, Trend Estimates

EMPLOYED PERSONS TREND ESTIMATES

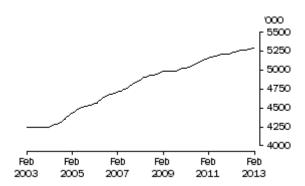
MALES

The trend estimate of employed males generally rose from 5,218,400 in February 2003 to 5,985,400 in September 2008. The trend then fell to 5,935,100 in April 2009, before rising to 6,207,600 in February 2011. The trend then fell to 6,197,400 in July 2011 before generally rising to 6,290,900 in February 2013.



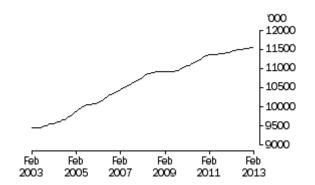
FEMALES

The trend estimate of employed females generally rose from 4,240,700 in February 2003 to 5,297,800 in February 2013.



PERSONS

The trend estimate of employed persons rose from 9,459,200 in February 2003 to 10,931,100 in November 2008. The trend then fell to 10,928,200 in March 2009 before generally rising to 11,588,700 in February 2013.

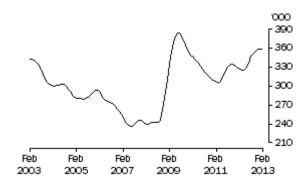


Unemployed Persons, Trend Estimates

UNEMPLOYED PERSONS TREND ESTIMATES

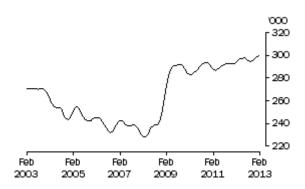
MALES

The trend estimate of unemployed males generally fell from 342,400 in February 2003 to 235,700 in June 2007. The trend then rose to 383,600 in June 2009, before falling to 305,400 in March 2011. The trend then generally rose to 359,000 in February 2013.

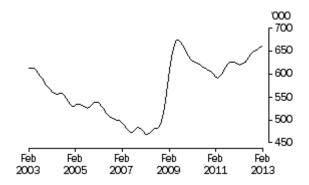


FEMALES

The trend estimate of unemployed females generally fell from 270,800 in February 2003 to 228,800 in February 2008. The trend then rose to 292,100 in September 2009, before falling to 282,900 in February 2010. The trend has since generally risen to 301,000 in February 2013.



The trend estimate of unemployed persons generally fell from 613,200 in February 2003 to 468,100 in March 2008. The trend then rose to 674,900 in June 2009 before falling to 592,300 in March 2011. The trend has since generally risen to 660,000 in February 2013.

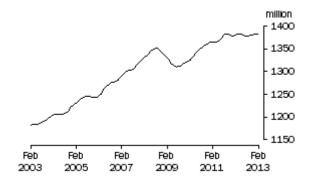


Aggregate Monthly Hours Worked, Trend Estimates

AGGREGATE MONTHLY HOURS WORKED TREND ESTIMATES

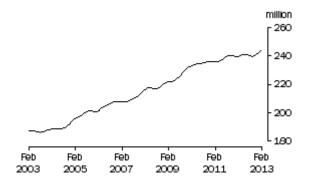
FULL TIME

The trend estimate of aggregate monthly hours worked by full time workers generally rose from 1,183 million hours in February 2003 to 1,351 million hours in August 2008. The trend then fell to 1,310 million hours in July 2009, before rising to 1,382 million hours in September 2011. The trend has since generally fallen to 1,378 million hours in August 2012 before rising to 1,383 million hours in February 2013.



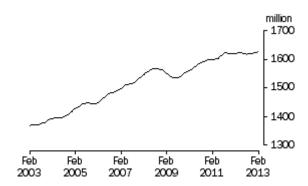
PART TIME

The trend estimate of aggregate monthly hours worked by part time workers generally fell from 187 million hours in February 2003 to 186 million hours in August 2003. The trend has since generally risen to 244 million hours in February 2013.



TOTAL

The trend total aggregate monthly hours worked followed a similar pattern to that of full time workers. It generally rose from 1,370 million hours in February 2003 to 1,568 million hours in August 2008 before falling to 1,535 million hours in June 2009. The trend has since generally risen to 1,627 million hours in February 2013.



Article Archive

AUSTRALIAN LABOUR FORCE STATISTICS ARTICLE ARCHIVE: January 2011 - CURRENT

This section provides an archive of articles and analysis published in *Labour Force*, *Australia* (cat. no. 6202.0), promoting the effective use of labour force statistics. Articles are sorted by publication date.

Articles on labour related topics are also regularly released in Australian Labour Market Statistics (cat. no. 6105.0) and Australian Social Trends (cat. no. 4102.0).

Labour Force Survey Archive

Forthcoming improvements to the content of the Labour Force and	January 2013
Labour Supplementary Surveys	
What's new in Labour Force	January 2013
Rebenchmarking of Labour Force Series	November 2012
Upcoming changes to the Labour Force Survey	July 2012
Labour Household Surveys content review and the Labour Force	June 2012
Survey	

Employment and mining in Queensland, New South Wales and Western	May 2012
Australia	
ABS Response to recent concerns expressed about employment	April 2012
estimates	
Population Benchmarks and Labour Force Survey	April 2012
Annual Seasonal Reanalysis	March 2012
Exploring Labour Force Data on joblessness	February 2012
Employment level estimates versus employment to population	January 2012
explained	•
Understanding the Australian Labour Force using ABS statistics	November 2011
Historical Revisions	February 2011
Impact of the floods on the Labour Force Survey	January 2011

About this Release

Summary results of the monthly Labour Force Survey containing estimates of employed and unemployed persons classified by sex, full-time/part-time status, states and territories and some age groups; and persons not in the labour force.

History of Changes

This document was added or updated on 21/03/2013.

21/03/2013 - Additional article. This article estimates the number of jobs in the economy and compares it with the number of people employed.

Explanatory Notes

Explanatory Notes

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains estimates of the civilian labour force derived from the Labour Force Survey component of the Monthly Population Survey. The full time series for estimates from this publication are also available electronically. More detailed estimates are released one week after this publication in various electronic formats - see Labour Force, Australia, Delivery (cat. no. 6291.0.55.001) and Labour Force, Australia, Detailed, Quarterly (cat. no. 6291.0.55.003).

CONCEPTS, SOURCES AND METHODS

2 The conceptual framework used in Australia's Labour Force Survey aligns closely with the standards and guidelines set out in Resolutions of International Conferences of Labour Statisticians. Descriptions of the underlying concepts and structure of Australia's labour force statistics, and the sources and methods used in compiling the estimates, are presented in **Labour Statistics: Concepts, Sources and Methods** (cat. no. 6102.0.55.001) which is available on the ABS website https://www.abs.gov.au.

LABOUR FORCE SURVEY

- **3** The Labour Force Survey is based on a multi-stage area sample of private dwellings (currently approximately 29,000 houses, flats, etc.) and a list sample of non-private dwellings (hotels, motels, etc.), and covers approximately 0.33% of the civilian population of Australia aged 15 years and over.
- **4** Information is obtained from the occupants of selected dwellings by specially trained interviewers using computer-assisted interviewing.
- **5** Households selected for the Labour Force Survey are interviewed each month for eight months, with one-eighth of the sample being replaced each month. The first interview is generally conducted face-to-face. Subsequent interviews are conducted by telephone (if acceptable to the respondent).
- 6 The interviews are generally conducted during the two weeks beginning on the Sunday between the 5th and 11th of each month. The information obtained relates to the week before the interview (i.e. the reference week). Each year, to deal with operational difficulties involved with collecting and processing the Labour Force Survey around the Christmas and New Year holiday period, interviews for December start four weeks after November interviews start, and January interviews start five weeks after December interviews start. As a result, January interviewing may commence as early as the 7th or as late as the 13th, depending on the year. Occasionally, circumstances that present significant operational difficulties for survey collection can result in a change to the normal pattern for the start of interviewing.
- **7** In December 2012, the ABS commenced a trial of on-line electronic data collection. Respondents in one rotation group (i.e. one-eighth of the survey sample) were offered the option of completing their labour force survey questionnaire on-line instead of a face-to-face or telephone interview. The trial will continue on this same rotation group prior to a decision on rolling out an electronic collection option progressively to the full sample of the Labour Force Survey.
- **8** Estimates from the Labour Force Survey are usually published first in this publication 32 days after the commencement of interviews for that month, with the exception of estimates for each December which are usually published 39 days after the commencement of interviews.

SCOPE OF SURVEY

9 The Labour Force Survey includes all persons aged 15 years and over except members of the permanent defence forces, certain diplomatic personnel of overseas governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed

in Australia.

COVERAGE

10 In the Labour Force Survey, coverage rules are applied which aim to ensure that each person is associated with only one dwelling, and hence has only one chance of selection. The coverage rules are necessarily a balance between theoretical and operational considerations. Nevertheless, the chance of a person being enumerated at two separate dwellings in the survey is considered to be negligible.

POPULATION BENCHMARKS

- 11 The Labour Force Survey estimates are calculated in such a way as to add up to independent estimates of the civilian population aged 15 years and over (population benchmarks). These population benchmarks are projections of the most recently released quarterly Estimated Resident Population (ERP) data. For information on the methodology used to produce the ERP see Australian Demographic Statistics (cat. no. 3101.0). Since the most recently released ERP estimates lag the current time period for labour force survey estimates by 9 months, the population benchmarks for the Labour Force Survey are created by projecting forward three quarters past the most recently released quarterly ERP estimates. The projection is based on the historical pattern of each population component -births, deaths, interstate migration and net overseas migration (NOM). Projected estimates of NOM are supplemented with other supplementary data sources to forecast population changes in the short-term. This includes forecasts published by the Department of Immigration & Citizenship in the publication The Outlook for Net Overseas Migration.
- 12 Every five years, the ERP series are revised to incorporate additional information available from the latest Census of Population and Housing (Census), through a process referred to as 'rebasing'. Labour Force Survey population benchmarks, and the estimates, are revised following this 5-yearly revision in the ERP. From the February 2009 issue of this publication, labour force estimates have been compiled using population benchmarks based on the results of the 2006 Census. Revisions were made in the February 2009 issue to historical labour force estimates from June 2001 to January 2009.
- 13 In the past, ABS has revised the Labour Force Survey population benchmarks every five years in order to incorporate additional information from the latest Census and the subsequent rebasing process. However, in the July 2010 issue of this publication the Labour Force Survey population benchmarks were revised back to July 2006 to accommodate other revisions to ERP, before the scheduled 5-yearly revision. Revisions were also made from July 2008 to October 2012 and were published in the November 2012 issue of this publication.
- 14 Commencing in March 2010, the ERP series has been revised twice-yearly, in the March and September quarter issues of **Australian Demographic Statistics** (cat. no. 3101.0). This biannual revision cycle incorporates more up to date information available for NOM. From November 2012, each bi-annual revision to ERP estimates will be used to update the population benchmarks used in creating the Labour Force Survey estimates, resulting in revisions to the historical time series. For more information, refer to the article **Rebenchmarking of Labour Force Series** in the November 2012 issue of this publication.
- **15** The population benchmarks and the labour force estimates will be revised following the release of the 2011 Census-based ERP estimates, which will incorporate revisions over a longer period than is usually covered by the rebating process. The ABS will rebenchmark

the labour force estimates back 20 years to 1991, the same revision period selected for revisions to historical ERP. For more information on these, refer to the June 2012 issue of **Australian Demographic Statistics** (cat. no. 3101.0).

ESTIMATION METHOD

16 The estimation method used in the Labour Force Survey is Composite Estimation, which was introduced in May 2007. Composite Estimation combines data collected in the previous six months with current month's data to produce the current month's estimates, thereby exploiting the high correlation between overlapping samples across months in the Labour Force Survey. The Composite Estimator combines the previous and current month's data by applying different factors according to length of time in the survey. After these factors are applied, the seven months of data are weighted to align with current month population benchmarks. For details see Information Paper: Forthcoming Changes to Labour Force Statistics, 2007 (cat. no. 6292.0).

COMPARABILITY OF SERIES

- **17** From April 1986, the definition of employed persons was changed to include persons who worked without pay between 1 and 14 hours per week in a family business or on a farm (i.e. contributing family workers). For further information, see paragraphs 22 and 23 of the Explanatory Notes in the February 2003 issue of **Labour Force**, **Australia** (cat. no. 6203.0).
- 18 The ABS introduced telephone interviewing into the Labour Force Survey in August 1996. Implementation was phased in for each new sample group from August 1996 to February 1997. During the period of implementation, the new method produced different estimates than would have been obtained under the old methodology. The effect dissipated over the final months of implementation and was no longer discernible from February 1997. The estimates for February 1997 and onwards are directly comparable to estimates for periods prior to August 1996. For further details, see the feature article in the June 1997 issue of Labour Force, Australia (cat. no. 6203.0).
- 19 From April 2001 the Labour Force Survey has been conducted using a redesigned questionnaire containing additional data items and some minor definitional changes. The definition of unemployed persons was changed to include all persons who were waiting to start work and were available to start in the reference week. This change was introduced in February 2004, when historical unit record data were revised from April 2001 to January 2004. This revision created a small trend break at April 2001 in unemployed persons and unemployment rate series. For further details, see Information Paper: Forthcoming Changes to Labour Force Statistics (cat. no. 6292.0), released in December 2003.
- **20** Core labour force series were revised in April 2001 for the period April 1986 to March 2001 for the remaining definitional changes introduced with the redesigned questionnaire, to reduce the impact of the changes on labour force series. For further details, see **Information Paper: Implementing the Redesigned Labour Force Survey Questionnaire** (cat. no. 6295.0) and **Information Paper: Questionnaires Used in the Labour Force Survey** (cat. no. 6232.0).
- **21** In May 2007, an improved method of estimation, known as composite estimation, was introduced into the Labour Force Survey. In introducing this change, the ABS revised unit record data from April 2001 to April 2007 based on the new estimation method. While estimates for periods prior to April 2001 are unrevised and were compiled using a different estimation method, no trend break was identified in the employed persons series. Also, no

change was identified in the trend breaks in the unemployed persons and unemployment rate series which arose with the introduction of a redesigned survey form in April 2001 (as noted above in paragraph 19). For further details, see <u>Information Paper: Forthcoming</u> Changes to Labour Force Statistics, 2007 (cat. no. 6292.0).

LABOUR FORCE SURVEY SAMPLE

- **22** The current Labour Force Survey sample has been selected using information collected in the 2006 Census of Population and Housing.
- 23 The majority of this sample was phased in over the period November 2007 to June 2008, with one-eighth of this portion of the sample being introduced every month. Such a pattern of implementation means that any changes to labour force estimates due to differences between the two samples, or any other influences, were spread over the eight months. The remainder of the sample (about 20% of the total), which covers less settled areas and non-private dwellings was rotated in full for New South Wales, Western Australia, Northern Territory and Australian Capital Territory in March 2008, and for Victoria, Queensland, South Australia and Tasmania in April 2008.
- **24** As one of a range of ABS savings initiatives for the 2008-09 financial year, there was a 24% reduction in the LFS sample size for the period July 2008 to August 2009, relative to the June 2008 sample size. The sample reduction was reversed from September 2009 to December 2009, with December 2009 estimates being the first produced under the fully reinstated sample.
- **25** For further details, see <u>Information Paper: Labour Force Survey Sample Design</u> (cat. no. 6269.0).

RELIABILITY OF ESTIMATES

- **26** Two types of error are possible in an estimate based on a sample survey: sampling error and non-sampling error.
- 27 Sampling error occurs because a sample, rather than the entire population, is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors. Standard errors of key estimates for the latest month and of movements since the previous month of these estimates are shown in the standard errors section of this publication. Standard errors for other estimates and other movements may be calculated by using the spreadsheet contained in Labour ForceSurvey Standard Errors, Data Cube (cat. no. 6298.0.55.001) which is available free of charge on the ABS website https://www.abs.gov.au.
- **28** Non-sampling error arises from inaccuracies in collecting, recording and processing the data. Every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures. Non-sampling error also arises because information cannot be obtained from all persons selected in the survey. The Labour Force Survey receives a high level of co-operation from individuals in selected dwellings, with the average response rate over the last year being 97%. See Glossary for definition of response rate.

SEASONAL ADJUSTMENT AND TREND ESTIMATION

- 29 Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular or non-seasonal influences which may be present in any particular month. This means that month-to-month movements of the seasonally adjusted estimates may not be reliable indicators of trend behaviour.
- **30** The Labour Force Survey uses the concurrent seasonal adjustment method to derive seasonal factors. Concurrent seasonal adjustment uses data up to the current month to estimate seasonal factors for the current and all previous months. This process can result in revisions each month to estimates for earlier periods. However, in most instances, the only noticeable revisions will be to the seasonally adjusted estimates for the previous month and one year prior to the current month.
- 31 The revision properties of the seasonally adjusted and trend estimates can be improved by the use of Autoregressive Integrated Moving Average (ARIMA) modelling. ARIMA modelling relies on the characteristics of the series being analysed to project future period data. The projected values are temporary, intermediate values, that are only used internally to improve the estimation of the seasonal factors. The projected data do not affect the original estimates and are discarded at the end of the seasonal adjustment process. The Labour Force Survey uses an ARIMA model for 95% of the individual time series. The ARIMA model is assessed as part of the annual reanalysis. For further details, see the feature article in the October 2004 issue of <u>Australian Economic Indicators</u> (cat. no. 1350.0).
- **32** Seasonal adjustment is able to remove the effect of events which occur at the same time in the survey every year. However, there are some events, like holidays, which are not always at the same time in the survey cycle or which are not at the same time across Australia. The effects of these types of events on Labour Force Survey estimates cannot in all cases be removed, because the pattern of their effects cannot be determined. However, two events for which adjustment is made in the seasonally adjusted series are the January interview start date and the timing of Easter. For further details, see Information Paper: Forthcoming Changes to Labour Force Statistics (cat. no. 6292.0) released in December 2003.
- **33** While seasonal factors for the complete time series are estimated each month, they will continue to be reviewed annually at a more detailed level to take into account each additional year's original data. This annual review will not normally result in significant changes to published estimates. The next review is scheduled to be released with the April issue of this publication.
- **34** The smoothing of seasonally adjusted series to produce 'trend' series reduces the impact of the irregular component of the seasonally adjusted series. These trend estimates are derived by applying a 13-term Henderson-weighted moving average to all months except the last six. The last six monthly trend estimates are obtained by applying surrogates of the Henderson average to the seasonally adjusted series. Trend estimates are used to analyse the underlying behaviour of a series over time.
- **35** While this smoothing technique enables estimates to be produced for the latest month, it does result in revisions in addition to those caused by the revision of seasonally adjusted estimates. Generally, revisions due to the use of surrogates of the Henderson average become smaller, and after three months have a negligible impact on the series.

36 Trend estimates are published for the Northern Territory in table 10 and for the Australian Capital Territory in table 11. Unadjusted series for the two Territories have shown, historically, a high degree of variability, which can lead to considerable revisions to the seasonally adjusted estimates each month when seasonal factors are estimated. For this reason, seasonally adjusted estimates are not currently published for the two Territories. In addition, caution should be exercised in the interpretation of trend estimates for the two Territories, particularly for the three most recent months, where revisions may be relatively large.

37 For further information, see <u>A Guide to Interpreting Time Series - Monitoring Trends</u> (cat. no. 1349.0) or contact the Assistant Director, Time Series Analysis on (02) 6252 6345 or email time.series.analysis@abs.gov.au.

RELATED PUBLICATIONS

38 Users may also wish to refer to the following publications:

- Labour Force Survey Standard Products and Data Item Guide (cat.no. 6103.0).
 This publication is a reference guide for users of Labour Force Survey data standard products.
- <u>Australian Labour Market Statistics</u> (cat. no. 6105.0). This publication presents key indicators of the labour market, articles on a range of labour market issues, and information about the latest developments in the labour statistics program. For further information about this publication, please contact Labour Market Statistics on (02) 6252 7206.
- **39** ABS information about the labour market can be found on the Topics @ a Glance page on the ABS website https://www.abs.gov.au.
- **40** Information about current publications and other products released by the ABS is available from the statistics page on the ABS website. The ABS also issues a daily release advice on the website, Upcoming Product Releases, which details products to be released in the week ahead.

DATA AVAILABLE ON REQUEST

41 As well as the statistics included in this and related publications, the ABS may have other relevant data available. Inquiries should be made to the Labour Force contact officer on (02) 6252 6525, email labourforce@abs.gov.au or to any ABS office.

EFFECTS OF ROUNDING

42 Estimates have been rounded and discrepancies may occur between sums of the component items and totals. Estimates of movement shown in this publication are obtained by taking the difference of unrounded estimates. The movement estimate is then rounded. Where a discrepancy occurs between the reported movement and the difference of the rounded estimates, the reported movement will be more accurate.

SYMBOLS AND ABBREVIATIONS

43 SYMBOLS AND ABBREVIATIONS

Symbol	Definition	
'000	thousands	
%	percentage	
ABS	Australian Bureau of Statistics	
CAI	computer assisted interviewing	
cat. no.	catalogue number	
ERP	estimated resident population	
f/t	full time	
LFS	Labour Force Survey	
p/t	part time	
pts	percentage points	
Seas adj.	seasonally adjusted	
TAFE	Technical and Further Education	

Glossary

GLOSSARY

Actively looking for work

Includes writing, telephoning or applying to an employer for work; answering an advertisement for a job; checking noticeboards; being registered with Centrelink as a jobseeker; checking or registering with any other employment agency; advertising or tendering for work; and contacting friends or relatives.

Actual hours of work

Actual hours of work refers to a specified reference period and includes:

- hours actually worked during normal periods of work;
- time spent in addition to hours worked during normal periods of work (including overtime);
- time spent at the place of work on activities such as the preparation of the workplace, repairs and maintenance, preparation and cleaning of tools, and the preparation of receipts, time sheets and reports;
- time spent at the place of work waiting or standing by; and
- time corresponding to short rest periods.

Excluded are:

- hours paid for but not worked, such as paid annual leave, public holidays or paid sick leave;
- meal breaks; and
- time spent on travel to and from work (excluding some self-employed).

For multiple job holders actual hours worked should equal the hours worked at all jobs.

Aggregate monthly hours worked

Aggregate monthly hours worked measures the total number of actual hours worked by employed persons in a calendar month. It differs from the actual hours worked estimates (and the usual hours worked estimates) since these refer only to the hours worked in the reference week.

The methodology used to produce aggregate monthly hours worked means that these are synthetic estimates. Seasonally adjusted and trend estimates of aggregate monthly hours worked are available for the period July 1978 onwards.

Further information on the methodology used to produce the aggregate monthly hours worked estimates is available on the ABS website in **Information Paper: Expansion of Hours Worked Estimates from the Labour Force Survey** (cat. no. 6290.0.55.001).

Actual and usual hours worked cannot be aggregated across time to produce either quarterly or annual estimates as they relate to only a single week in the month. In contrast, aggregate monthly hours worked estimates are a true monthly measure, and may be aggregated across time to produce both quarterly and annual estimates.

Attending full time education

Persons aged 15-24 years enrolled at secondary or high school or enrolled as a full time student at a Technical and Further Education (TAFE) college, university, or other educational institution in the reference week.

Attending school

Persons aged 15-19 years enrolled at secondary or high school in the reference week.

Attending tertiary educational institution full time

Persons aged 15-24 years enrolled full time at a TAFE college, university, or other educational institution in the reference week, except those persons aged 15-19 years who were still attending school.

Civilian population aged 15 years and over

All usual residents of Australia aged 15 years and over except members of the permanent defence forces, certain diplomatic personnel of overseas governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed in Australia.

Composite Estimation

The estimation methodology used in the Labour Force Survey. Composite Estimation uses sample responses from nearby months as well as from the reference month to derive estimates for the reference month. This approach achieves gains in efficiency by exploiting the high similarity between the responses provided by the same respondent in previous months. For details see <u>Information Paper: Forthcoming Changes to Labour Force Statistics</u>, 2007 (cat. no. 6292.0).

Employed

All persons aged 15 years and over who, during the reference week:

- worked for one hour or more for pay, profit, commission or payment in kind in a job or business, or on a farm (comprising employees, employers and own account workers);
- worked for one hour or more without pay in a family business or on a farm (i.e. contributing family workers); or
- were employees who had a job but were not at work and were:
 - away from work for fewer than four weeks up to the end of the reference week; or
 - away from work for more than four weeks up to the end of the reference week and received pay for some or all of the four week period to the end of the reference week; or
 - away from work as a standard work or shift arrangement; or
 - on strike or locked out; or
 - on workers' compensation and expected to return to their job; or
- were employers or own account workers, who had a job, business or farm, but were not at work.

Employment to population ratio

For any group, the number of employed persons expressed as a percentage of the civilian population in the same group.

Estimated resident population (ERP)

Estimated resident population (ERP), is Australia's official measure of the population of Australia and is based on the concept of usual residence. It refers to all people, regardless of nationality, citizenship or legal status, who usually live in Australia, with the exception of foreign diplomatic personnel and their families. It includes usual residents who are overseas for fewer than 12 months. It excludes overseas visitors who are in Australia for fewer than 12 months. Refer to **Australian Demographic Statistics** (cat. no. 3101.0).

Flow estimates

Flow estimates are a measure of activity over a given period. For example, aggregate monthly hours worked is a measure of the total number of hours worked in a calendar month.

Full time workers

Employed persons who usually worked 35 hours or more a week (in all jobs) and those who, although usually working fewer than 35 hours a week, worked 35 hours or more during the reference week.

Gross flows

The matching of respondents who report in consecutive months enables analysis of the transition of individuals between the different labour force status classifications, referred to as the matched sample. The transition counts between the different labour force status classifications from one point in time to the next are commonly referred to as gross flows.

The figures presented in gross flows are presented in original terms only and do not align with published labour force estimates. The gross flows figures are derived from the matched sample between consecutive months, which after taking account of the sample rotation and varying non-response in each month is approximately 80 percent of the sample.

Caution should be exercised when analysing these gross flows data due to:

- the figures presented sum to approximately 80 percent of the population values as the gross flows data are based on the matched sample only;
- there is no adjustment applied to account for changes due to seasonal patterns (referred to commonly as seasonal adjustment); and
- the estimates of relative sizes of each transition class are subject to bias due to the matched sample being a non-representative sample.

Labour force

For any group, persons who were employed or unemployed, as defined.

Labour force status

A classification of the civilian population aged 15 years and over into employed, unemployed or not in the labour force, as defined. The definitions conform closely to the international standard definitions adopted by the International Conferences of Labour Statisticians.

Labour force underutilisation rate

The sum of the number of persons unemployed and the number of persons in underemployment, expressed as a proportion of the labour force.

Long-term unemployed

The number of persons unemployed for 52 weeks or over.

Long-term unemployment ratio

The number of long-term unemployed persons, expressed as a percentage of the total unemployed population.

Market sector

The market sector is an industry grouping comprising the following industries: Agriculture, forestry and fishing; Mining; Manufacturing; Electricity, gas, water and waste services; Construction; Wholesale trade; Retail trade; Accommodation and food services; Transport, postal and warehousing; Information media and telecommunications; Finance and insurance services; Rental, hiring and real estate services; Professional, scientific and technical services; Administrative and support services; Arts and recreation services; and Other services. Refer to Australian National Accounts: Concepts, Sources and Methods (cat. no. 5216.0).

Non-market Sector

The non-market sector is an industry grouping comprising the following industries: Education and training; Public administration & safety; and Health care and social assistance. Refer to Australian National Accounts: Concepts, Sources and Methods

(cat. no. 5216.0).

Not in labour force

Persons who were not in the categories employed or unemployed, as defined.

Participation rate

For any group, the labour force expressed as a percentage of the civilian population aged 15 years and over in the same group.

Part time workers

Employed persons who usually worked fewer than 35 hours a week (in all jobs) and either did so during the reference week or were not at work during the reference week.

Response rate

The number of fully responding dwellings expressed as a percentage of the total number of dwellings excluding sample loss. Examples of sample loss include: dwellings where all persons are out of scope and/or coverage; vacant dwellings; dwellings under construction; dwellings converted to non-dwellings; derelict dwellings; and demolished dwellings.

Seasonally adjusted series

A time series of estimates with the estimated effects of normal seasonal variation removed. See Explanatory Notes paragraphs 29 to 33 for more detail.

Stock estimates

Stock estimates are a measure of certain attributes at a point in time and can be thought of as **stocktakes**. For example, the total number of employed persons is an account of the number of people who were considered employed in the Labour Force Survey reference week.

Trend series

A smoothed seasonally adjusted series of estimates. See Explanatory Notes paragraphs 34 to 37 for more detail.

Underemployment rate

The number of underemployed workers expressed as a percentage of the labour force.

Underemployed workers

Employed persons aged 15 years and over who want, and are available for, more hours of work than they currently have. They comprise:

- persons employed part time who want to work more hours and are available to start work with more hours, either in the reference week or in the four weeks subsequent to the survey; or
- persons employed full time who worked part time hours in the reference week for economic reasons (such as being stood down or insufficient work being available). It is assumed that these people wanted to work full time in the reference week and would

have been available to do so.

Unemployed

Persons aged 15 years and over who were not employed during the reference week, and:

- had actively looked for full time or part time work at any time in the four weeks up to the end of the reference week and were available for work in the reference week; or
- were waiting to start a new job within four weeks from the end of the reference week and could have started in the reference week if the job had been available then.

Unemployed looking for full time work

Unemployed persons who:

- actively looked for full time work; or
- were waiting to start a new full time job.

Unemployed looking for part time work

Unemployed persons who:

- actively looked for part time work only; or
- were waiting to start a new part time job.

Unemployment rate

For any group, the number of unemployed persons expressed as a percentage of the labour force in the same group.

Unemployment to population ratio

For any group, the number of unemployed persons expressed as a percentage of the civilian population in the same group.

Usual hours of work

Usual hours of work refers to a typical period rather than to a specified reference period. The concept of usual hours applies both to persons at work and to persons temporarily absent from work, and is defined as the hours worked during a typical week or day. Actual hours worked (for a specific reference period) may differ from usual hours worked due to illness, vacation, strike, overtime work, a change of job, or similar reasons.

Quality Declaration - Summary

QUALITY DECLARATION - SUMMARY

INSTITUTIONAL ENVIRONMENT

Labour Force statistics are compiled from the Labour Force Survey which is conducted each month throughout Australia as part of the Australian Bureau of Statistics (ABS) household survey program. For information on the institutional environment of the ABS, including the legislative obligations of the ABS, financing and governance arrangements, and mechanisms for scrutiny of ABS operations, please see ABS Institutional Environment.

RELEVANCE

The Labour Force Survey provides monthly information about the labour market activity of Australia's resident civilian population aged 15 years and over. The Labour Force Survey is designed to primarily provide estimates of employment and unemployment for the whole of Australia and, secondarily, for each state and territory.

TIMELINESS

The Labour Force Survey enumeration begins on the Sunday between the 5th and 11th of the month, except for the Christmas and New Year holiday period. In December enumerations starts between the 3rd and 9th (4 weeks after November enumeration begins). In January enumeration starts between the 7th and 13th (5 weeks after December enumeration begins).

Key estimates from the Labour Force Survey are published in two stages. The first, *Labour Force, Australia* (cat. no. 6202.0), is released 32 days after the commencement of enumeration for the month, with the exception of estimates for December which are published 39 days after the commencement of enumeration.

The second stage includes detailed data that were not part of the first stage and are published in *Labour Force, Australia, Detailed - Electronic Delivery* (cat. no. 6291.0.55.001) and *Labour Force, Australia, Detailed, Quarterly* (cat. no. 6291.0.55.003). The second stage is released 7 days after the first stage.

ACCURACY

The Labour Force Survey is based on a sample of private dwellings (approximately 29,000 houses, flats etc) and non-private dwellings, such as hotels and motels. The sample covers about 0.33% of the Australian civilian population aged 15 years or over. The Labour Force Survey is designed primarily to provide estimates of key labour force statistics for the whole of Australia and, secondarily, for each state and territory.

Two types of error are possible in an estimate based on a sample survey: non-sampling error and sampling error.

Non-sampling error arises from inaccuracies in collecting, recording and processing the data. Every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures. Non-sampling error also arises because information cannot be obtained from all persons selected in the survey. The Labour Force Survey receives a high level of cooperation, with an average response rate for the last year being 97%.

Sampling error occurs because a sample, rather than the entire population, is surveyed.

One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors.

Standard errors of key estimates and movements since the previous month are available in *Labour Force, Australia* (cat. no. 6202.0). The standard error of other estimates and movements may be calculated by using the spreadsheet contained in *Labour Force Survey Standard Errors, Data Cube* (cat. no. 6298.0.55.001).

COHERENCE

The ABS has been conducting the Labour Force Survey each month since February 1978. While seeking to provide a high degree of consistency and comparability over time by minimising changes to the survey, sound survey practice requires careful and continuing maintenance and development to maintain the integrity of the data and the efficiency of the collection.

The changes which have been made to the Labour Force Survey have included changes in sampling methods, estimation methods, concepts, data item definitions, classifications, and time series analysis techniques. In introducing these changes the ABS has generally revised previous estimates to ensure consistency and coherence with current estimates. For a full list of changes made to the Labour Force Survey see Chapter 20 in *Labour Statistics: Concepts, Sources and Methods* (cat. no. 6102.0.55.001).

INTERPRETABILITY

The key estimates from the Labour Force Survey are available as original, seasonally adjusted and trend series. Seasonal adjustment is a means of removing the effects of normal seasonal variation from the series so other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular influences which may be present and therefore month-to-month movements may not be reliable indicators of underlying behaviour. To assist in interpreting the underlying behaviour, the ABS produces the trend series by smoothing the seasonally adjusted series to reduce the impact of the irregular component. For further information, see *A Guide to Interpreting Time Series - Monitoring Trends* (cat. no. 1349.0).

Further information on the terminology and other technical aspects associated with statistics from the Labour Force Survey can be found in the publication *Labour Force*, *Australia* (cat. no. 6202.0), which contains detailed Explanatory Notes, Standard Error information and a Glossary.

ACCESSIBILITY

Please see the Related Information tab for the list of products that are available from this collection.

What If

EFFECT OF NEW SEASONALLY ADJUSTED ESTIMATES ON TREND ESTIMATES

TREND REVISIONS

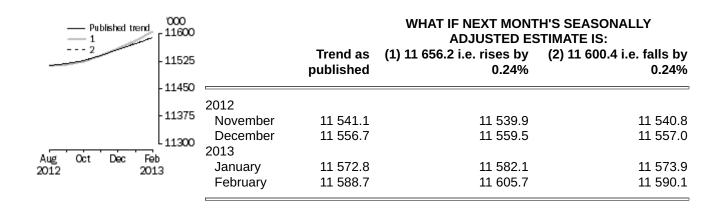
Each time new seasonally adjusted estimates become available, trend estimates are revised. This revision is a combined result of the concurrent seasonal adjustment process and the application of surrogates of the Henderson average to the seasonally adjusted series (see paragraphs 29 to 37 of the Explanatory Notes).

The examples in the tables below show two illustrative scenarios and the consequent revisions to previous trend estimates of employment and the unemployment rate. The revisions in the scenarios are due to the use of surrogates of the Henderson average, as the impact of revision of seasonally adjusted estimates can not be estimated in advance.

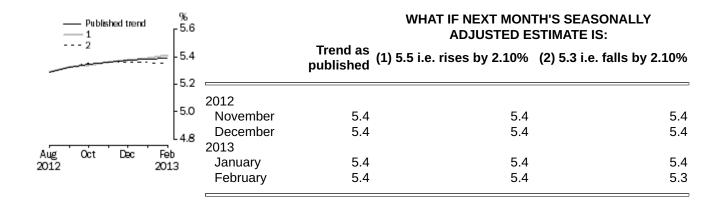
- **1** The March seasonally adjusted estimate is **higher** than the February estimate by: 0.24% for employment
- 2.10% for the unemployment rate
- **2** The March seasonally adjusted estimate is **lower** than the February estimate by:
- 0.24% for employment
- 2.10% for the unemployment rate

The percentage changes of 0.24% and 2.10% represent the average absolute monthly percentage changes in employment and the unemployment rate respectively. Estimates in the graphs have been calculated using unrounded estimates, and may be different from, but more accurate than, rounded estimates depicted in the corresponding table.

Employment



Unemployment Rate



Standard Errors

STANDARD ERRORS

The estimates in this publication are based on information gained from the occupants of a sample survey of dwellings. Because the entire population is not surveyed, the published estimates are subject to sampling error. The most common way of quantifying such sampling error is to calculate the standard error for the published estimate or statistic. For more information, see paragraphs 26 to 28 of the Explanatory Notes.

LEVEL ESTIMATES

To illustrate, let us say the published level estimate for employed persons aged 15-19 years is 700,000 and the associated standard error is 9,000. The standard error is then used to interpret the level estimate of 700,000. For instance, the standard error of 9,000 indicates that:

- There are approximately two chances in three that the real value falls within the range 691,000 to 709,000 (700,000 + or 9,000)
- There are approximately nineteen chances in twenty that the real value falls within the range 682,000 to 718,000 (700,000 + or 18,000).

The real value in this case is the result we would obtain if we could enumerate the total population.

The following table shows the standard errors for this month's level estimates.

AUSTRALIA NSW Vic. Qld SA WA Tas. NT ACT MalesFemalesPersons

Aged 15 years and over Employed								
Litipioyeu								
Full time	'000	20.8 21.01	5.5 6.710.1	2.7 4.0	2.4	27.3	19.6	33.0
Part time	'000	14.5 13.61	0.0 5.0 7.0	2.1 1.1	1.6	11.1	17.7	21.8
Total	'000	22.7 25.71	7.6 7.811.0	3.2 4.7	2.5	29.6	27.3	37.3
Unemployed								

		1000	0.0	700		0.0	4007	4.0	40.7	0.0	440
	Looking for f/t work	'000	8.9	7.3 6.			1.3 0.7	1.0	10.7	8.9	14.0
	Looking for p/t work	'000	5.6		2 2.0		0.8 0.3	0.7	5.6	6.9	9.0
	Total	'000	10.7	9.1 7.			1.6 0.8	1.3	12.2	11.4	16.9
Labour force		'000		26.518.			3.3 4.8	2.5	30.4	28.2	38.0
Not in labou		'000	21.2	23.815.	7 7.1	10.7	3.1 3.7	2.3	24.9	29.4	34.6
Unemploym											
	Looking for f/t work	pts	0.3	0.3 0.			0.8 0.7	0.6	0.2	0.3	0.2
	Looking for p/t work	pts	0.5		6 0.7		0.9 1.3	1.3	0.5	0.3	0.2
	Total	pts	0.3		3 0.4		0.6 0.6	0.6	0.2	0.2	0.1
Participation	ı rate	pts	0.4	0.6 0.	5 0.6	0.6	0.8 2.7	8.0	0.3	0.3	0.2
Aged 15-19 ye	ears										
Employed											
	Full time	'000	3.3	2.5 2.	5 1.1	1.7	0.5 0.3	0.4	4.4	3.4	5.1
	Part time	'000	4.6	4.0 3.	6 1.6	2.3	0.7 0.4	0.6	5.2	6.1	7.7
	Total	'000	5.4	4.6 4.	3 1.9	2.9	0.8 0.5	0.7	6.5	6.6	9.0
Unemployed	d										
	Looking for f/t work	'000	3.4	2.4 2.	7 1.1	1.4	0.5 0.2	0.4	4.0	3.3	5.3
	Looking for p/t work	'000	3.1	3.3 2.	2 1.1	1.4	0.5 -	0.6	3.9	3.6	5.4
	Total	'000	4.8	4.2 3.	6 1.6	2.0	0.7 0.3	0.7	5.6	4.9	7.6
Labour force	9	'000	6.1	5.2 4.	8 2.1	3.2	0.9 0.6	0.8	7.2	7.2	10.0
Not in labou	r force	'000	8.1	6.5 5.	6 2.4	3.6	1.0 0.8	8.0	8.5	8.1	12.0
Unemploym	ent rate										
	Looking for f/t work	pts	3.9	4.4 3.	8 5.0	3.8	6.8 5.9	9.8	2.2	3.3	1.8
	Looking for p/t work	pts	1.8	2.2 1.	8 2.6	2.2	3.8 0.8	5.1	1.6	1.1	0.9
	Total	pts	1.9	2.1 1.	9 2.5	2.0	3.5 2.8	4.6	1.3	1.2	0.9
Participation	ı rate	pts	1.3	1.4 1.	5 2.0	2.0	2.7 3.5	3.3	0.9	1.0	0.7
•	ent to population ratio -	'									
looking for f		pts	0.7	0.7 0.	9 1.0	0.9	1.5 1.5	1.6	0.5	0.5	0.4

⁻ nil or rounded to zero (including null cells)

MOVEMENT ESTIMATES

The following example illustrates how to use the standard error to interpret a movement estimate. Let us say that one month the published level estimate for females employed part-time in Australia is 1,890,000; the next month the published level estimate is 1,900,000 and the associated standard error for the movement estimate is 11,900. The standard error is then used to interpret the published movement estimate of 10,000. For instance, the standard error of 11,900 indicates that:

- There are approximately two chances in three that the real movement between the two months falls within the range 1,900 to 21,900 (10,000 + or 11,900)
- There are approximately nineteen chances in twenty that the real movement falls within the range 13,800 to 33,800 (10,000 + or 23,800).

The following table shows the standard errors for this month's movement estimates.

AUSTRALIA
NSW Vic. Qld SA WA Tas. NT ACT MalesFemalesPersons

Aged 15 years Employed	and over										
	Full time	'000	14.1	11.210.1	3.8	6.6	1.7 1.3	1.7	17.8	13.0	22.6
	Part time	'000	8.9	7.6 6.1	2.8	4.1	1.2 0.6	1.0	7.9	11.9	14.2
	Total	'000	16.9	13.713.5	5.5	8.4	2.1 1.4	1.9	19.6	17.8	27.5
Unemployed											
	Looking for f/t work	'000	9.0	7.5 7.7	2.9	4.0	1.3 0.6	1.1	10.9	9.1	14.4
	Looking for p/t work	'000	5.6	5.2 4.4	1.9	2.5	0.8 0.2	8.0	5.8	7.1	9.2
	Total	'000	10.7	9.1 9.0	3.5	4.7	1.6 0.6	1.3	12.5	11.6	17.3

Labour force Not in labour force	'000		14.214.5 13.212.9			2.2 1.5 2.1 1.2	2.0 2.0	20.2 15.6	18.4 19.5	28.5 25.9
Unemployment rate										
Looking for f/t work	pts	0.3	0.4 0.4	0.5	0.4	0.9 0.8	0.7	0.2	0.3	0.2
Looking for p/t work	pts	0.5	0.6 0.6			1.0 1.2	1.3	0.5	0.3	0.3
Total	pts	0.3	0.3 0.3	0.4	0.3	0.7 0.7	0.6	0.2	0.2	0.1
Participation rate	pts	0.3	0.3 0.4	0.4	0.4	0.5 0.8	0.7	0.2	0.2	0.2
Aged 15-19 years										
Employed										
Full time	'000	2.5	2.0 2.1	0.9	1.5	0.4 0.2	0.3	3.5	2.8	4.1
Part time	'000	3.7	3.0 2.8	1.3	1.9	0.5 0.3	0.5	4.1	4.7	5.8
Total	'000	4.2	3.4 3.3	1.4	2.2	0.6 0.4	0.5	5.0	5.1	6.7
Unemployed										
Looking for f/t work	'000	3.5	2.7 2.8	1.0	1.5	0.6 0.3	0.4	4.2	3.4	5.4
Looking for p/t work	'000	3.4	3.3 2.4	1.1	1.5	0.5 -	0.6	4.0	4.0	5.5
Total	'000	4.8	4.2 3.8	1.5	2.1	0.8 0.3	8.0	5.8	5.3	7.7
Labour force	'000	4.6	3.8 3.6	1.5	2.4	0.7 0.4	0.6	5.4	5.5	7.3
Not in labour force	'000	5.1	4.1 3.7	1.6	2.3	0.7 0.5	0.6	6.0	5.7	7.9
Unemployment rate										
Looking for f/t work	pts	4.1	4.7 3.9	5.6	3.9	7.4 7.0	10.4	2.3	3.6	1.9
Looking for p/t work	pts	2.0	2.3 1.9	2.6	2.3	4.4 1.0	5.1	1.6	1.2	1.0
Total	pts	1.9	2.2 2.0		2.1	3.9 3.3	4.7	1.3	1.2	0.9
Participation rate	pts	1.0		1.5		1.9 2.4	2.5	0.7	8.0	0.5
Unemployment to population ratio - looking for f/t work	pts	0.7		1.0		1.6 1.6	1.8	0.5	0.5	0.4

⁻ nil or rounded to zero (including null cells)

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